

Priority

This feature enables you to carry on scanning, searching or whatever while the scanner automatically checks one of the 1000 memory channels every 2 seconds for activity. If this channel is found to be busy the scanner will stop whatever it's doing and switch to that channel until it clears or until you tell it to do something else.

The priority mode is automatically suspended during the entry of frequencies from the keypad and also while manually tuning with the frequency up/down knob to avoid jumping to the priority channel while you're busy.

Programming which channel will be the priority channel is quite simple. You press **PROG PRI** and **bank and channel number ENTER**. For example, if you want bank 1 channel 23 to be used then press: **PROG PRI 123 ENTER**.

To switch the facility on or off press the **PRI** key. The **PRI** legend will show on the display when the priority feature is active.

To check which channel was last programmed as being the priority channel simply activate the priority mode and fully open the squelch control. Obviously when the priority channel is checked it will be found "busy" as the squelch is open causing the scanner to change to that channel allowing you to see which one it is.

Light

Pressing the **LIGHT** switch on top panel will cause the display to be illuminated and press it again to distinguish the illumination.

Key Lock.

Pressing the **Key Lock** button located on keyboard panel toggles the key lock mode on and off. When active, the **KEY LOCK** legend will show on the display. This function simply disables the keypad and the up/down knob for occasions when you have set up the unit to do something and don't wish accidental keystrokes to mess it up.

Clarifying Single Side Band Transmissions

The majority of users of frequencies between 2MHz and 30MHz are utility stations or Utes for short. Marine, aircraft, commercial and amateur radio services use SSB or Single Side Band as the principal mode. With the BFO switch in the OFF position and AM mode is selected and indicated on LCD display, signals monitored will be in the AM mode. Single Sideband transmission, (SSB) will sound distorted.

With exception of the military, world conventions dictate that commercial users, including marine and aircraft will use Upper Side Band or USB mode. Amateur services 7MHz and below use Lower Side Band or LSB. The military can use either or both modes without compliance to world standards.

When monitoring SSB it is necessary to clarify the signals using the BFO control located on the top panel of the **AE 300**. When a SSB transmission is detected, push the BFO button down with the BFO controls in 12 o'clock position, rotate the BFO controls in clockwise or counter-clockwise until the voice sounds normal. To assist in limiting the amount of noise received with SSB signals select **LOCAL** position of **LOCAL/DX** push button.

Troubleshooting

Before returning your receiver for repair please check the following.

1. No power

- * Check if you have batteries inside of the battery compartment in correct directions.
- * Check if the Ni-Cad. batteries are fully charged.
- * AC adaptor or cigarette lighter adaptor are firmly and correctly connected.
- * The power connection polarity is correct.

2. Can not charge

- * Make sure that power switch located top of the radio is off.
- * Check if you have batteries in correct directions.
- * Check if these batteries are over charged or over discharged.

3. No LCD display

- * Check if the batteries are fully charged and appropriate power is applied.

4. Poor sensitivity

- * If the (ATT) is depressed then the sensitivity is reduced. Press it again for DX position.
- * Check the antenna is correctly connected. The antenna may be faulty or short circuited (maybe in the connector). Or if you connect the radio to external antenna, check coaxial cable.
- * The antenna may be miss-matched and unsuitable.

5. No audio output

- * The power switch is turned on.
- * The volume control is properly used.
- * Background noise is audible when the squelch control is turned fully anti-clockwise.
- * If a headset, earphone or external loudspeaker is used, check if it is correctly fitted into the appropriate socket.

6. Does not operate properly with from the keypad.

- * Check if key lock switch is on. (check LCD display. If key marking is on. It is OK)
Press key lock switch to distinguish key marking from the display.
- * If you confuse the way how to program, press **SCAN** or **SEARCH** key to start it again.
- * If **AE 300** refuse to accept numeric key entering, try to press **/clear** key and start again.
- * Turn the squelch control fully clockwise if the search or scan refuses to operate